Patent Claims

5	1.	A frame element (20, 30; 130; 220) for a monopolar stack, comprising:
		a plurality of recesses (31; 131) for receiving ribs (12; 212) of plate elements (10; 110; 201) arranged to form a stack, and/or
10		a plurality of perforations (21; 221) for passing therethrough ribs (12; 212) of plate elements (10; 110; 210) which are arranged to form a stack.
15	2.	A frame element (20; 220) according to claim 1, comprising perforations (21; 221) for passing therethrough ribs (12; 212) of the plate elements (10; 210) arranged to form a stack, wherein the frame element (20; 220) is provided at one side with a structure (23; 225) which is electrically conductive in portions and which supports a monopolar wiring of the plate elements (10; 210) arranged to form the stack.
20	3.	A frame element (20; 220) according to claim 2, wherein the structure (25; 225) which is electrically conductive in portions comprises a regular pattern.
	4.	A frame element (20; 220) according to claim 2 or 3, comprising:
25		a printed circuit board on which the structure (25; 225) is formed that is electrically conductive in portions.
	5.	A frame element (220) according to any one of claims 1 to 4, comprising:
30		mounting means (229) for two end plates (250) which complete the stack of plate elements (210) at both sides.

A frame element (30; 130) according to any one of claims 1 to 5, comprising at

6.

least one channel (32a, 32b; 132a, 132b) for fluid conduction along a stack axis of the monopolar stack.

7. A method for producing a fuel cell stack, comprising the steps of:

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arranging plate elements (210) in a stack arrangement;

pre-tensioning the plate elements (210);

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laterally attaching frame elements (220) according to any one of claims 1 to 6 on the stack so that the recesses and/or the perforations (221) of the frame elements (220) receive ribs (212) of the plate elements (210);

offsetting the pretension.

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8. A method according to claim 7, wherein prior to the offsetting of the pretension the ribs (212) of the plate elements (210) are soldered with the frame elements (220).